Datasheet
3S 12V 10A 18650 Lithium Battery Overcharge and Over-current Protection board

This is a protection module for 3-serial-cell lithium-ion / lithium polymer rechargeable batteries and includes a high-accuracy voltage detector and delay circuit. Automatically cancel protection after fault conditions removed. With Protection function of overcharge, over-discharge, short circuit and over-current protection. Suitable for lithium battery pack of 11.1V, 12V & 12.6V.

Brief Data:
- Overcharge Voltage Detection: 3.9~4.35V ± 0.05V.
- Over discharge voltage Detection: 2.3~3.0V ± 0.05V.
- Maximum operating current: 6~8A.
- Quiescent current: < 30uA.
- Internal resistance: < 100mΩ.
- Charging voltage: 12.6V ~ 13V.
- Working temperature: -40~+50℃
- Short circuit protection: Yes, delayed self recovery.
- Dimensions: (50 x 16 x 1) mm
Board Dimension:

[Schematic Diagram:]

Schematic Diagram:
**Basic Connection Diagram:**

![Basic Connection Diagram](image1)

**Application Example:**

![Application Example](image2)

Charging 3S1P (3 Series 1 Parallel)
Charging 3S2P (3 Series 2 Parallel) Configuration